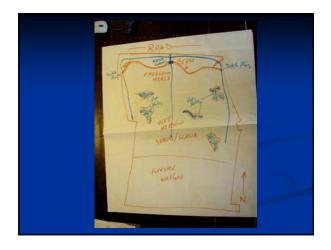
Blue Team Retired Mississippi Gal	
 Scenario A sweet young Mississippi gal, retired from NRCS, so fairly poor, inherited a tract of land in Oswego County. She wants to know if there are programs in NY she can use to develop this site for wildlife. She likes waterbirds, herps and mammals. 	
Objectives Improve wetland wildlife habitat for: Waterbirds Herps Mammals Restore wetland hydrology Restore native vegetative communities	

Success Criteria

- Evidence of use of wetland by target species or groups within 5 years
 - Shorebirds
 - Wading birds
 - Ducks & geese
 - Herps
 - Mammals

Components of Restoration

- 1 berm
- 2 ditch plugs
- 1 water control structure
- Dig potholes
- Create microtopography with spoil and woody debris



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Existing Conditions

- Vegetation
 - Dominated by upland herbaceous species
 - Sparse wetland species: rush, sedge
 - Few early-successional woody species present: gray birch, cottonwood, willow
 - Few invasive species present: *Phragmites*, purple loosestrife
- Wildlife
 - Limited use by wetland species



Existing Conditions cont'd

- Soils
 - Deep muck soil, > 16"
 - Periodically saturated
- Hydrology
 - Heavily tiled, drainage ditches throughout
 - Drained by a single culvert under the road
 - Seasonally high water table

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Proposed Planting Plan

- Seed & mulch dike
- Natural regeneration of emergent marsh
- Seed spoil piles with wetland mix
- Woody species planted on spoil piles and transition areas
 - Dogwood cuttings
 - Blueberry & spicebush plugs
- Natural regeneration in shrub-forest section

Engineering Features

- 2700 linear feet of curvilinear berm
 - Constructed from mineral soils on periphery of site
 - 4 foot overall height with 4:1 slope
 - One spillway at either end of the berm
- One water control structure sized to accommodate 25 year, 24 hr storm
- Plug the two perimeter ditches



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Water Source Ground water Surface runoff

Wildlife Considerations

- Create variety of habitat types to benefit a diverse wildlife population

 - Aquatic bed (diving ducks, wood ducks, turtles)
 Emergent vegetation (dabbling ducks, shorebirds, waders, turtles, frogs)
 - Mud flats (shorebirds)
 - Pools (amphibians, waders, ducks)
 - Transitional meadow & shrubland (waterfowl nesting)

Funding Sources

- USDA WRP program
- USFWS Partners for Wildlife
- Ducks Unlimited
- National Fish & Wildlife Foundation
- NAWCA grant
- DEC State Wildlife Grants

	
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Timetable

- Acquire easement & contracting 1 year
- Survey & Design 6 months
 - Includes permitting & alternatives analysis
 - Soils investigation
 - Water budget
- Construction 3 weeks (August)
- Control Phragmites

Timetable cont'd

- Planting
 - Berm seeded when constructed
 - Cuttings and plugs planted the following spring
- Install boards in water control structure to flood site in late summer.
- Total time approximately 18 months

Operation & Maintenance

- Maintain shallow water areas ranging from 0-2 feet over ~ 75 acres
- Drawdown every 3 4 years depending on vegetation per agreement
- Maintain condition of berm
- If funding is available from outside sources
 - Shallow disking of the shallow marsh areas to benefit annuals (ducks)
 - Control of invasive plants on site and as they encroach

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Monitoring

- Annual monitoring of vegetation
 - Extent of invasive species
 - Qualitative assessment of site vegetation, following WRP recommendations
 - Photo points
- Annual monitoring of target wildlife use
 - Qualitative assessment of presence of wetlanddependent wildlife

Overall Feasibility of Site

- High restoration potential
- Site will likely rank well for WRP